09/516,653

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Brian Doyle

Examiner: B. William Baumeister

Serial No.:

09/516,653

Group Art Unit: 2815

Filed:

March 1, 2000

Docket: 884.524US1

Title:

OUANTUM WIRE GATE DEVICE AND METHOD OF MAKING SAME

RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents Washington, D.C. 20231

#5 Election Andta In response to the Restriction Requirement mailed July 18, 2001, Applicant elects, without traverse, Group II (claims 1-28). Applicant cancels claims 29-38 without prejudice or disclaimer and reserves the right to reintroduce them in one or more divisional applications at a 8-24-0 later date.

Please add the following new claims 39-47. Claims 1-28 and 39-47 are now pending in the above identified patent application.

(New) A method of forming a structure comprising: 39.

> forming a plurality of semiconductive channels, each of the plurality of semiconductive channels comprising a channel length and a channel width;

forming a dielectric layer upon the semiconductive channel length;

forming a source at a first terminal end of the plurality of semiconductive channels;

forming a second teminal end of the plurality of semiconductive channels;

forming a gate layer over the dielectric layer, wherein electron flow in the plurality of

semiconductive channels has a mean free path that is greater than the semiconductive

channel width, and wherein a first semiconductive channel of the plurality of

semiconductive channels is spaced apart from a second semiconductive channel of the

plurality of semiconductive channels by a trench that is less than about five times the

semiconductive channel width.